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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,171	03/26/2004	Youngshik Yoon	PU030101	1989

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EXAMINER

BLACKMAN, ROCHELLE ANN J

ART UNIT PAPER NUMBER

2851

DATE MAILED: 04/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/811,171

Applicant(s)

YOON, YOUNGSHIK

Examiner

Rochelle Blackman

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4 and 6-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-4 and 6-9 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 4, 6, 7, and 9 are rejected under 35 U.S.C. 102(a) as being anticipated by Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255).

Regarding claims 1 and 6, Yamauchi discloses a projection display/ projection system having a projection display (for example, see FIGS. 15-17), comprising: an illumination source (see 25 of FIGS. 15 and 17) for producing light; a light-dividing prism (see 31 of FIG. 15(a), 16, and 17 and see paragraph [0145]) for receiving light from the illumination source and dividing the received light based on polarization control; and a plurality of integrators (see 9 and 10a, b of FIGS. 15-17), wherein the light received from the illumination source and divided by the light-dividing prism is provided to each of the plurality of integrators (see light rays projected towards 9 and 10a, b in FIGS. 15(a), 16, and 17).

Regarding claims 2 and 7, Yamauchi discloses wherein each integrator is further coupled to one or more imaging devices (see 1 of FIG. 17).

Regarding claims 4 and 9, Yamauchi discloses wherein the light-dividing prism has one of a square shape and a rectangular shape (see shape of 31 in FIGS. 15 and 17).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255) in view of Peng et al. (U.S. Patent No. 6,843,591).

Yamauchi discloses the claimed invention except for the plurality of integrators being "fiber integrators".

Peng teaches providing a plurality of integrators that are fiber integrators (see 140, 142, 144, 146 of FIGS. 1-3 and 6 and see col. 4, lines 26-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the "projection display"/ "projection system" of the Yamauchi reference with a plurality of integrators that are "fiber integrators" as taught by

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Peng for the purpose of reducing the lost of light during light integration and provide relatively uniform brightness of light (see col. 3, lines 29-33).

Note: the following rejection is being provided with the following reference because the reference comprises a different type of integrator and uses a polarization member with the integrator.

2. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255) in view of Suzuki et al. (U.S. Patent Application Publication No. 2002/0080485).

Yamauchi discloses the claimed invention except for the plurality of integrators being "fiber integrators".

Suzuki teaches providing a plurality of integrators that are fiber integrators (see 4, 4a of Figs. 2, 3, 5a-b, 6, and 7).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the "projection display"/ "projection system" of the Yamauchi reference with a plurality of integrators that are "fiber integrators" as taught by Suzuki for the purpose of reducing the lost of light during light integration and provide relatively uniform brightness of light.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



RB

**William Perkey**  
**Primary Examiner**